TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-17-01** **Date: 20-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/01
Sample Type	:	Ultratech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-04-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.66	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.2	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5 mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

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Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-17-01** **Date: 15-05-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/01
Sample Type	:	Ultratech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-04-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-17-01** **Date: 20-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	388	388	7.8	92.2	90-100
3	10 mm	2153	2541	50.8	49.2	25-55
4	4.75 mm	2015	4556	91.1	8.9	0-10
5	Pan	444	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-17-01** **Date: 20-04-2017**

Sample ID No : 2017-04-17-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**8.1**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**9.6**	
3	Specific Gravity	**2.58**	_
4	Bulk Density(Loose) (Kg/l)	**1.50**	_
5	Bulk Density(Compacted) (Kg/l)	**1.57**	_
6	Water Absorption(%)	**0.21**	_
7	Aggregate crushing Value(%)	**23.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**20.5**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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End of Report

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-17-01** **Date: 20-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	577	577	3.8	96.2	90-100
3	20 mm	4779	5356	35.7	64.3	30-70
4	10 mm	5882	11238	74.9	25.1	10-35
5	4.75 mm	3222	14460	96.4	3.6	0-5
6	Pan	540	15000	100	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-17-01** **Date: 20-04-2017**

Sample ID No : 2017-04-17-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.18	–

Note:
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Page 2/2
****End of Report****

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-04-17-01** **Date: 20-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	17-04-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	186	208	20.8	79.2	60-95	75-100	85-100	95-100
4	1.18 mm	215	423	42.3	57.7	30-70	55-90	75-100	90-100
5	600 micron	202	625	62.5	37.5	15-34	35-59	60-79	80-100
6	300 micron	211	836	83.6	16.4	5-20	8-30	12-40	15-50
7	150 micron	122	958	95.8	4.2	0-10	0-10	0-10	0-15
8	Pan	42	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

o ID : **CP-2017-04-17-01** **Date: 20-04-17**

ample ID No : 2017-04-17-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.82	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-29-04** **Date: 02-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-17
Sample ID No	:	2017-04-29-04/01
Customer ID	:	M20 Cube
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cube	M20	25/04/2017	02/05/2017	151.22 X 150.37 X 150.65	22739	8.183	388.8	17.1	16.6
2	M20 Cube	M20	25/04/2017	02/05/2017	150.43 X 151.87 X 150.26	22846	8.192	381.5	16.7	
3	M20 Cube	M20	25/04/2017	02/05/2017	150.82 X 150.65 X 150.34	22721	8.175	365.8	16.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-29-04** **Date: 23-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-17
Sample ID No	:	2017-04-29-04/02
Customer ID	:	M20 Cube
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cube	M20	25/04/2017	23/05/2017	150.22 X 151.93 X 150.44	22823	8.173	529.5	23.2	23.3
2	M20 Cube	M20	25/04/2017	23/05/2017	150.72 X 150.43 X 150.87	22673	8.188	537.3	23.7	
3	M20 Cube	M20	25/04/2017	23/05/2017	150.37 X 150.22 X 150.73	22589	8.297	521.8	23.1	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-19-01**	**Date: 21-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-04-17	
Sample ID No	:	2017-04-19-01/05	
Sample Type	:	Indus	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	20-04-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.612	585	675	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-19-01**	**Date: 21-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-04-17	
Sample ID No	:	2017-04-19-01/04	
Sample Type	:	Indus	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	20-04-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.395	543	667	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-29-05** **Date: 03-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-17
Sample ID No	:	2017-04-29-05/01
Customer ID	:	M20 Cube
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cube	M20	26/04/2017	03/05/2017	150.92 X 150.75 X 150.32	22751	8.116	414.1	18.2	17.8
2	M20 Cube	M20	26/04/2017	03/05/2017	151.76 X 150.87 X 150.38	22896	8.172	407.5	17.8	
3	M20 Cube	M20	26/04/2017	03/05/2017	150.29 X 150.93 X 150.77	22683	8.154	392.4	17.3	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-29-05** **Date: 24-05-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains SC Colony at Kogilu and Agrahara in Ward No.05 Jakkur Byatarayanapura Sub Division.

Agency : Executive Engineer, KRIDL, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/96/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-17

Sample ID No : 2017-04-29-05/02

Customer ID : M20 Cube

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cube	M20	26/04/2017	24/05/2017	149.95 X 150.48 X 150.73	22564	8.143	530.3	23.5	23.8
2	M20 Cube	M20	26/04/2017	24/05/2017	150.11 X 150.65 X 150.82	22614	8.232	547.3	24.2	
3	M20 Cube	M20	26/04/2017	24/05/2017	150.32 X 150.99 X 150.72	22697	8.155	537.9	23.7	

Note:
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Quality Manager

Page 1/1
****End of Report****